## WHAT IS CLAIMED IS:

- 1. An image sensor comprising:
- (a) a semi-conducting substrate having a photo-sensitive region and doping for forming a path to a charge-to-voltage mechanism;
  - (b) a dielectric spanning the substrate; and
- (c) a semi-conducting layer, which is less than approximately 1 micrometer, spanning the dielectric which contains electrodes and circuit elements that control flow of charge.
- 2. The image sensor as in claim 1, wherein the semi-conducting substrate and semi-conducting layer are silicon.
- 3. The image sensor as in claim 2, wherein the dielectric is silicon dioxide.
- 4. The image sensor as in claim 3, wherein the semi-conducting substrate includes an epitaxial layer.
- 5. The image sensor as in claim 1 further comprising doping for a reset transistor in the semi-conducting substrate and a reset gate in the semi-conducting layer.
- 6. The image sensor as a claim 1, wherein the photo-sensitive region is a photodiode.
- 7. The image sensor as in claim 1, wherein the charge-to-voltage mechanism is a floating diffusion.
- 8. The image sensor as in claim 1, wherein the image sensor is a CMOS image sensor.

- 9. A method for creating an image sensor comprising the steps of:
  - (a) providing a substrate;
  - (b) providing the substrate with a dielectric;
  - (c) providing a semi-conducting layer on the dielectric; and
- (d) implanting through the dielectric and semi-conducting layer into the substrate for forming a photo-sensitive region, a transfer gate channel and charge-to-voltage mechanism.
- 10. The method as in claim 9 further comprising forming an isolation region adjacent the photodiode.
- 11. A method for creating an image sensor comprising the steps of:
  - (a) forming a substrate;
  - (b) covering the substrate with a dielectric;
- (c) implanting through the dielectric into the substrate for forming a photodiode, a transfer gate channel and floating diffusion; and
  - (d) bonding a semi-conducting layer onto the dielectric.
  - 12. A camera comprising:

an image sensor comprising:

- (a) a semi-conducting substrate having a photo-sensitive region and doping for forming a path to a charge-to-voltage mechanism;
  - (b) a dielectric spanning the substrate; and
- (c) a semi-conducting layer, which is less than approximately 1 micrometer, spanning the dielectric which contains electrodes and circuit elements that control flow of charge.
- 13. The camera as in claim 12, wherein the semi-conducting substrate and semi-conducting layer are silicon.

- 14. The camera as in claim 13, wherein the dielectric is silicon dioxide.
- 15. The camera as in claim 14, wherein the semi-conducting substrate includes an epitaxial layer.
- 16. The camera as in claim 12 further comprising doping for a reset transistor in the semi-conducting substrate and a reset gate in the semi-conducting layer.
- 17. The camera as in claim 12, wherein the photo-sensitive region is a photodiode.
- 18. The camera as in claim 12, wherein the charge-to-voltage mechanism is a floating diffusion.
- 19. The camera as in claim 12, wherein the image sensor is a CMOS image sensor.